

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Xin, et al.

Serial No.: 10/771,926

Filed: February 4, 2004

Title: PROTEIN-TYROSINE
PHOSPHATASE INHIBITORS AND USES
THEREOF

Case No.: 7041US02



Group Art No.: 1614

Examiner: (not yet assigned)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the:
Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450 on:

Date of Deposit: June 16, 2004

Tanya Parent 6/16/04
Tanya Parent Date

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Dear Sir:

Enclosed herewith for the patent application identified above entitled PROTEIN-TYROSINE PHOSPHATASE INHIBITORS AND USES THEREOF are the following:

1. Information Disclosure Statement;
2. Form PTO 1449, in duplicate;
3. References as cited on PTO 1449 (21 references); and
4. Return Receipt Postcard.

The Commissioner is hereby authorized to charge any additional Filing Fees required under 37 CFR §1.16, as well as any patent application processing fees under 37 CFR §1.17 associated with this communication for which full payment had not been tendered, to Deposit Account No. 01-0025.

Respectfully submitted,
Xin, et al.

ABBOTT LABORATORIES
Customer Number 23492
Telephone: (847) 935-7956
Facsimile: (847) 938-2623

JM Corbin
Johanna M. Corbin
Registration No. 51,582
Attorney for Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Xin, et al.

Serial No.: 10/771,926

Filed: February 4, 2004

Title: PROTEIN-TYROSINE
PHOSPHATASE INHIBITORS AND USES
THEREOF

Case No.: 7041US02

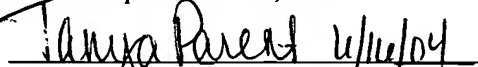


Group Art No.: 1614

Examiner: (not yet assigned)

I hereby certify that this paper (along with any paper referred to as
being attached or enclosed) is being deposited with the United States
Postal Service on the date shown below with sufficient postage as
first class mail in an envelope addressed to the:
Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450 on:

Date of Deposit: June 16, 2004


Tanya Parent Date

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

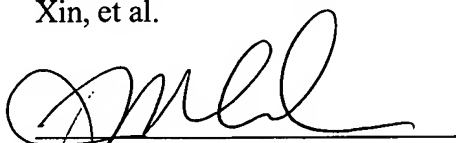
Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed, to the knowledge of the undersigned, before the mailing date of a first Office Action on the merits. Applicants respectfully petition and request that the Examiner consider the listed documents and evidence such consideration by making appropriate notations on the attached form. Copies of the listed documents are attached.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

The Commissioner is authorized to charge our Deposit Account any additional fees (or credit any over payments) that may be required under 37 C.F.R. §§ 1.16 and 1.17 in association with this communication for which full payment has not been tendered.

Respectfully submitted,
Xin, et al.

ABBOTT LABORATORIES
Customer Number 23492
Telephone: (847) 935-7956
Facsimile: (847) 938-2623


Johanna M. Corbin
Registration No. 51,582
Attorney for Applicants



DATE: June 16, 2004 SHEET 1 of 2

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

7041US02

SERIAL NO.

10/771,926

APPLICANT

Zhili Xin, *et al.*

FILING DATE

February 4, 2004

GROUP

1614

(37 CFR 1.98 (b))

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | PATENT NUMBER | ISSUE DATE | PATENTEE | CLASS | SUB CLASS | FILING DATE |
|---------------------|---------------|---------------|----------|-------|--------------|----------------|
| | | | | | | |
| | | | | | | |

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| | DOCUMENT NUMBER | PUBLI- CATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUB CLASS | TRANS- LATION |
|--|------------------|--------------------------|-----------------------------|-------|--------------|------------------|
| | | | | | | YES NO |
| | B1 0 1 1 7 5 1 6 | 15.03.2001 | WO | | | |
| | B2 0 1 1 9 8 3 0 | 22.03.2001 | WO | | | |
| | B3 0 1 1 9 8 3 1 | 22.03.2001 | WO | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

| | |
|-----|---|
| C1 | Ahmad, F., <i>et al.</i> , "Osmotic Loading of Neutralizing Antibodies Demonstrates a Role for Protein-tyrosine Phosphatase 1B in Negative Regulation of the Insulin Action Pathway (*)", <i>Jour. Biol. Chem.</i> , 270 (35):20503-20508 (1995) |
| C2 | Bryant, N. J., <i>et al.</i> , "Regulated Transport of the Glucose Transporter Glut4", <i>Nature Reviews</i> , 3 :267-277 (2002) |
| C3 | Cheng, A., <i>et al.</i> , "Coordinated action of protein tyrosine phosphatases in insulin signal transduction", <i>Eur. J. Biochem.</i> , 269 :1050-1059 (2002) |
| C4 | Dunstan, D. W., <i>et al.</i> , "The Rising Prevalence of Diabetes and Impaired Glucose Tolerance: The Australian Diabetes, Obesity and Lifestyle Study", <i>Diabetes Care</i> , 25 (5):829-834 (2002) |
| C5 | Elchebly, M., <i>et al.</i> , "Increased Insulin Sensitivity and Obesity Resistance in Mice Lacking the protein Tyrosine Phosphatase-1B Gene", <i>Science</i> , 283 :1544-1548 (1999) |
| C6 | Flint, A. J., <i>et al.</i> , "Multi-site phosphorylation of the protein tyrosine phosphatase, PTP1B: identification of cell cycle regulated and phorbol ester stimulated sites of phosphorylation", <i>The EMBO Jour.</i> , 12 (5):1937-1946 (1993) |
| C7 | Goldstein, B. J., <i>et al.</i> , "Tyrosine Dephosphorylation and Deactivation of Insulin Receptor Substrate-1 by Protein-tyrosine Phosphatase 1B", <i>Jour. Biol. Chem.</i> , 275 (6):4283-4289 (2000) |
| C8 | Groop, L. & Orho-Melander, M., "The dysmetabolic syndrome", <i>Jour. of Internal Med.</i> , 250 :105-120 (2001) |
| C9 | Klaman, L. D., <i>et al.</i> , "Increased Energy Expenditure, Decreased Adiposity, and Tissue-Specific Insulin Sensitivity in Protein-Tyrosine Phosphatase 1B-Deficient Mice", <i>Molecular and Cellular Biol.</i> , 20 (15):5479-5489 (2000) |
| C10 | Mauro, L. J., <i>et al.</i> , "Identification of a Hormonally Regulated Protein Tyrosine Phosphatase Associated with Bone and Testicular Differentiation", <i>The Journ. of Biol. Chem.</i> , 269 :30659-30667 (1994) |
| C11 | Noguchi, T., <i>et al.</i> , "Role of SH-PTP2, a Protein-Tyrosine Phosphatase with Src Homology 2 Domains, in Insulin-Stimulated Ras Activation", <i>Mol. and Cell. Biol.</i> , 14 (10):6674-6682 (1994) |
| C12 | Ostman, A. & Böhmer, F-D., "Regulation of receptor tyrosine kinase signaling by protein tyrosine phosphatases", <i>Trends Cell Biol.</i> , 11 :258-266 (2001) |
| C13 | Saltiel, A. R., & Pessin, J. E., "Insulin signaling pathways in time and space", <i>Trends in Cell Biol.</i> , 12 (2):65-71 (2001) |
| C14 | Seely, L. B., <i>et al.</i> , "Protein Tyrosine Phosphatase 1B Interacts With the Activated Insulin Receptor", <i>diabetes</i> , 4 (10):1379-1385 (1996) |
| C15 | Wang, Q., <i>et al.</i> , "Mechanism of Inhibition of Protein-Tyrosine Phosphatases by Disodium Aurothiomalate", <i>Biochem. Pharma.</i> , 54 :703-711 (1997) |

| | | |
|--|-----|--|
| | C16 | Wiener, J. R., <i>et al.</i> , "Overexpression of the Protein Tyrosine Phosphatase PTP1B in Human Breast Cancer: Association With p185 ^{c-erbB-2} Protein Expression", <i>Journ of the Nat'l Cancer Insti.</i> , 86(5) :372-378 (1994) |
| | C17 | Zabolotny, J. M., <i>et al.</i> , "PTO1B Regulates Leptin Signal Transduction in ViVo", <i>Developmental Cell</i> , 2 :489-495 (2002) |
| | C18 | Zinker, B. A., <i>et al.</i> , "PTP1B antisense oligonucleotide lowers PTO1B protein, normalizes blood glucose, and improves insulin sensitivity indiabetic mice", <i>Proc. Natl. Acad. Sci, USA</i> , 99(17) :11357-11362 (2002) |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449)